IN THE CLAIMS:

Please cancel Claims 1-61 without prejudice, and add new Claims 62-86, as follows:

1.-61. (Canceled)

62. (New) A computerized wireless handset adapted to receive and process a message sent from a remote telephony endpoint, wherein the data message is constructed in and transmitted from the remote telephony endpoint and the data message is characterized in that it includes a set of telephone dialing digits that are used to identify the wireless handset to a telephony network so that the telephony network can route the data message to the wireless handset, the handset comprising:

a processor;

a user interface comprising a display and a user input device;

a wireless transceiver that implements an air interface that supports at least one telephony channel and at least one packet data channel; and

wherein the computerized wireless handset is adapted to:

monitor the telephony channel for a data message that indicates a desire to open a packet switched data connection, the packet switched data connection to be opened via the packet data channel;

receive the data message from the telephony channel;

analyze the data message, and based upon information in the data message, engage in a packet data connection establishment sequence with a remote computer in order to establish a packet switched data connection via the packet data channel using a packet switched network protocol; and

receive at least one packet containing application layer data via the established packet switched data connection and couple at least some of the received application layer data to a user via the user interface.

63. (New) The computerized wireless handset according to claim 62, wherein the computerized wireless handset is further adapted to:

in response information contained in the data message, cause the second function to be coupled to the packet switched data connection.

64. (New) The computerized wireless handset according to claim 62, wherein the remote telephony endpoint comprises the remote computer.

65. (New) The computerized wireless handset according to claim 64, wherein after the reception of the data message, the telephony channel is subsequently used to support voice communications with the remote telephony endpoint, and packet data connection is used to support data communications with the remote computer to thereby support simultaneous multiplexed multimedia communications between the computerized wireless handset and the remote telephony endpoint.

66. (New) The computerized wireless handset according to claim 62, wherein the data message is embodied as a sequence of tones delivered from the remote telephony endpoint through a voice band telephone circuit established between the remote telephony endpoint and the computerized wireless handset in response to the transmission of the dialing digits from the remote telephony endpoint to the telephony network.

67. (New) The computerized wireless handset according to claim 62, wherein the remote telephony endpoint corresponds to a subscriber telephone device.

68. (New) The computerized wireless handset according to claim 62, wherein the remote telephony endpoint corresponds to a computer with a computer telephony integration interface.

69. (New) The computerized wireless handset according to claim 62, wherein the remote telephony endpoint comprises the remote computer, the remote computer delivers the data message via a computer telephony interface and the remote computer engages in the establishment of the packet data connection at least partially via a separate packet data network interface.

70. (New) The computerized wireless handset according to claim 62, wherein the packet switched data network switching infrastructure is further characterized in that it is used to support Internet connectivity in the wireless device, wherein the wireless device further engages in client-server communications with the remote computer via the Internet.

71. (New) The computerized wireless handset according to claim 62, wherein the data message identifies the remote computer, and the computerized wireless handset transfers data in the packet connection establishment sequence to the remote computer thereby.

72. (New) The computerized wireless handset according to claim 70, wherein the data message further comprises a packet data network address corresponding to the remote computer.

73. (New) The computerized wireless handset according to claim 72, wherein the packet data network address comprises a network layer address.

74. (New) The computerized wireless handset according to claim 72, wherein the packet data network address comprises a session layer address.

75. (New) The computerized wireless handset according to claim 72, wherein the data packet data network address comprises a transport layer address.

76. (New) The computerized wireless handset according to claim 72, wherein the data packet data network address comprises an application layer address.

77. (New) The computerized wireless handset according to claim 62, wherein the data message comprises a PSTN data packet.

78. (New) The computerized wireless handset according to claim 62, wherein the PSTN data packet comprises a PSTN datagram that follows at least one of the X.25, SS7, ANI, and CLID protocols.

79. (New) The computerized wireless handset according to claim 62, wherein the packet switched data connection comprises a session layer packet switched data connection.

80. (New) The computerized wireless handset according to claim 62, wherein the packet switched data connection comprises TCP/IP stream socket.

81. (New) The computerized wireless handset of claim 62 wherein the computerized wireless handset is further adapted to:

perform a selection operation, and in response to a user selection, selectively cause the packet switched data connection to be established in the second function.

82. (New) The computerized wireless handset of claim 62 wherein the packet switched data connection is established by the second function automatically without user selection.

83. (New) For use in a network wherein a remote telephony endpoint constructs a data message and directly or indirectly causes the coupling of a set of telephone dialing digits followed by the data message to a telephony network, the telephone dialing digits serving as an address on the telephony network to identify a computerized wireless handset, and the data message is routed and transmitted to the computerized wireless handset by the telephony network based at least in part on the dialing digits, the computerized wireless handsetcomprising:

a processor;

a user interface comprising a display and a user input device;

a wireless transceiver that implements an air interface that supports at least one telephony channel and at least one packet data channel; and

wherein the computerized wireless handset is adapted to:

monitor the telephony channel for the data message, wherein the data message provides information related to a packet switched data address associated with at least one communication layer associated with a remote computer;

analyze the data message, and based upon information in the data message, engage in a packet switched data connection establishment sequence with the remote computer in order to establish a packet switched data connection based upon the packet switched data address, wherein the packet switched data connection comprises the packet data channel;

receive at least one data packet via the packet switched data connection; and

couple information related at least one data packet to the user via the user interface of an application layer program.

84. (New) The computerized wireless handset of claim 83 wherein the software further comprises:

a fifth function that performs a selection operation, and in response to a user selection, selectively causes the packet switched data connection to be established in the second function.

85. (New) The computerized wireless handset of claim 83 wherein the packet switched data connection is established automatically without user selection.

86. (New) For use in a network environment wherein a remote telephony endpoint which comprises a remote computer constructs a data message and causes a set of telephone dialing digits followed by the data message to be coupled to a telephony network, the telephone dialing digits serve as an address on the telephony network to identify a computerized wireless

handset, and the data message is routed and transmitted to the computerized wireless handset by the telephony network based on the dialing digits, the computerized wireless handset comprising:

a processor;

a user interface comprising a display and a user input device;

a wireless transceiver that implements an air interface that supports at least one telephony channel and at least one packet data channel; and

wherein the computerized wireless handset is adapted to:

monitor the telephony channel for the data message, wherein the data message provides information to identify at least one of the identity of a local application program and an packet switched network address of the remote computer;

analyze the data message, and based upon information in the data message, engage in a packet data connection establishment sequence with the remote computer via the packet data channel in order to establish a packet switched data connection with the remote computer remote to support communication between the application program and the remote computer;

provide voice processing for telephonic communication; and

provide data communication support to allow the application program to communicate with a peer application program residing at the remote computer, wherein the data communication is transported via the packet switched data connection; and

task switch between the voice processing and data communication support, to thereby support multimedia communications between the remote subscriber telephony endpoint and the computerized wireless handset.